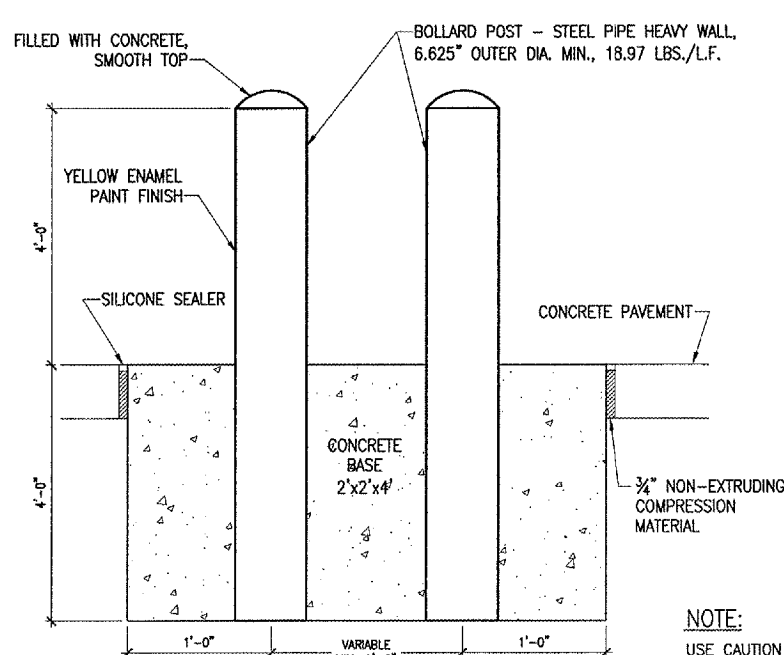
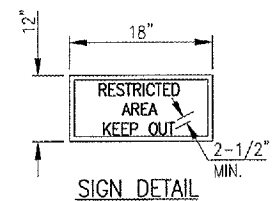


**ELECTRIC SLIDE GATE DETAIL**  
"NOT TO SCALE"



**BOLLARD DETAIL**  
"NOT TO SCALE"



**SIGN DETAIL**  
NOTE:  
0.08 GA. ALUMINUM ALLOY SHEET LETTERING COLOR SHALL BE RED. EACH GATE SHALL REQUIRE ONE SIGN. EVERY 100' OF FENCE SHALL REQUIRE ONE SIGN.

VEHICLE DETECTOR LOOPS		
GATE SIZE	LOOP SIZE	NO. OF TURNS
8' TO 12'	4' X 6'	3 TURNS
12' TO 16'	4' X 10'	2 TURNS
16' TO 20'	4' X 14'	2 TURNS
20' TO 24'	4' X 18'	2 TURNS
24' TO 30'	6' X 22'	2 TURNS
30' TO 34'	6' X 26'	2 TURNS

**NOTES:**

- SEE SPECIAL PROVISION SPECIFICATIONS FOR REQUIREMENTS ON GATE & GATE OPERATOR SYSTEM.
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER OR KEYPAD ACCESS CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER. FOUNDATION FOR THE CARD READER/KEYPAD ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED HEREIN.
- 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER OR KEYPAD ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER.
- THE GUARD/BOLLARD POSTS SHALL BE 6" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE 2' X 2' X 4'. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
- THE SLIDING GATE SHALL BE CANTILEVER TYPE OF THE SIZE CALLED FOR ON THE PLANS WITH AN ENCLOSED ROLLER ASSEMBLY WHICH IS PROTECTED FROM FREEZING RAIN AND SNOW, AND SHALL BE AS MANUFACTURED BY TYMETAL CORPORATION, ANCHOR FENCE INC., EDKO, OR APPROVED EQUAL.
- THE SLIDE GATE OPERATOR IS TO BE MOUNTED ON A STEEL PLATFORM LOCATED APPROXIMATELY 1'-6" ABOVE THE GROUND. WHERE STEEL PLATFORM IS NOT A STANDARD OPTION EXTEND THE FOOTING/FOUNDATION PAD APPROXIMATELY 8" ABOVE GRADE. SHOP DRAWINGS APPROVAL IS REQUIRED.
- CONTRACTOR SHALL PROVIDE VERIFICATION THAT THE PROPOSED GATE OPERATOR IS SUITABLE FOR USE WITH & PROPERLY SIZED FOR THE RESPECTIVE SLIDE GATE.
- PAYMENT FOR THE ELECTRIC SLIDE GATE SHALL BE ON A LUMP SUM BASIS AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, CABLE IN CONDUIT, DUCT, OR UNIT DUCT, GROUNDING, LABOR AND INCIDENTALS REQUIRED TO INSTALL THE RESPECTIVE GATE COMPLETE AND IN OPERATING CONDITION.
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT MANAGER.
- INCLUDE LOW VOLTAGE LINE PROTECTOR FOR THE CARD READER OR KEYPAD ACCESS CONTROL UNIT SUITABLE FOR USE ON THE RESPECTIVE CONTROL VOLTAGE SYSTEM, WITH SURGE CURRENT MAXIMUM RATING OF 3000 AMPS, LIFETIME PRODUCT REPLACEMENT WARRANTY AND AS RECOMMENDED BY THE KEYPAD ACCESS CONTROL UNIT MANUFACTURER'S REPRESENTATIVE.
- INCLUDE UL LISTED SECONDARY SURGE ARRESTER FOR THE GATE OPERATOR SUITABLE FOR USE ON 240 VAC, 1 PHASE, 2 WIRE PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 100 KA PER MODE, LIFETIME PRODUCT REPLACEMENT WARRANTY, AND AS RECOMMENDED BY THE GATE OPERATOR MANUFACTURER'S REPRESENTATIVE.
- INCLUDE LIGHTNING PROTECTION/SURGE ARRESTERS FOR THE DETECTOR AMPLIFIERS, AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER/KEYPAD STATION, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM AR610.
- CONTRACTOR SHALL VERIFY WITH THE AIRPORT MANAGER THE ACCESS CONTROLLER TYPE (CARD READER OR KEYPAD STATION) PRIOR TO ORDERING. INCLUDE 250 CARDS WITH CARD READER WHERE APPLICABLE.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE ELECTRIC GATE OPERATOR, SLIDE GATE, & ALL ASSOCIATED POWER & CONTROL DEVICES ARE COMPATIBLE WITH EACH OTHER & SUITABLE FOR THE RESPECTIVE APPLICATION TO PROVIDE A COMPLETE AND PROPERLY OPERATIONAL ELECTRIC SLIDE GATE INSTALLATION.

MAY 27, 2005 1:23 PM BAK E:\AIRPORTS\LOGAN\813-05A\PH\AIRPORT\SHEETS\E-502.DWG - Layout1 Q.A. REVIEW - WJM. - 3/23/05

DATE	REVISION	BY	
<b>LOGAN COUNTY AIRPORT LINCOLN, ILLINOIS</b>			
A.I.P. PROJ.: 3-17-0062-B12 IL PROJ.: AA-3430			
H&L Project No. 813-05A.PND.0800-	E-502.DWG	Scale NONE	Date 6/23/04
LAYOUT	KNL	DPE	6/24/04
DRAWN	DPE	DPE	03/18/05
REVIEWED	KNL	KNL	
<b>HANSON</b>			
Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62705-2886 Offices Nationwide			
<b>INSTALL PERIMETER SECURITY FENCE</b>	<b>GATE &amp; ELECTRIC OPERATOR DETAIL</b>		
10			
10 of 26 sheets			